

CLAIM AMENDMENTS

Please amend the claims as described herein below.

1 (Currently Amended): A domain control system comprising:  
a first manager comprising first logic, the first logic, responsive to a first signal, to provide a second signal representative of a first domain and a third signal representative of the first domain and a second domain; and

a second manager comprising second logic coupled to the first logic, the second logic, responsive to the second and third signals, to operate on a first value representative of the first domain and on a second value representative of the second domain, and to provide a fourth signal to control an event defined by the first and second values,

wherein the first logic adjusts the second signal according to a magnitude of the third signal.

2 (Currently Amended): A domain control system according to claim 1 wherein the first logic adjusts the second signal according to a the magnitude of the third signal without requiring intervention by a processor.

3 (Currently Amended): A domain control system according to claim ~~2~~ 1 wherein the first logic comprises:

a register to hold the third signal as a plurality of bits; and  
add/subtract logic coupled to the register, the add/subtract logic to increase or decrease the magnitude of the third signal by most significant ones of the plurality of bits.

4 (Original): A domain control system according to claim 1 wherein the second logic comprises:  
a first register to store the first value;  
a second register to store the second value; and  
add/subtract logic coupled to the first and second registers, the add/subtract logic,  
responsive to a fifth signal, to adjust the first and second values.

5 (Original): A domain control system according to claim 4 wherein the add/subtract logic  
adjusts the first value by a fixed amount and adjusts the second value by a variable amount.

6 (Original): A domain control system according to claim 4 wherein the add/subtract logic  
adjusts the second value based on the fifth signal and adjusts the first value based on the adjusted  
second value.

7 (Original): A domain control system according to claim 4 wherein the first register has a first  
capacity set by the first domain, and the second register has a second capacity set by the first  
domain and the second domain.

8 (Original): A domain control system according to claim 7 wherein the first domain is angular,  
and the first capacity is set by one of a plurality less than one degree.

9. (Currently Amended): A domain control system comprising:  
a first manager comprising first logic, the first logic, responsive to a first signal, to  
provide a second signal representative of a first domain and a third signal representative of the  
first domain and a second domain; and

a second manager comprising second logic coupled to the first logic, the second logic,  
responsive to the second and third signals, to operate on a first value representative of the first  
domain and on a second value representative of the second domain, and to provide a fourth  
signal to control an event defined by the first and second values.

~~A domain control system according to claim 1~~

wherein the second value is less than a product of the first value and the third signal.

10 (Original): A domain control system according to claim 1 wherein the first domain is angular and the second domain is time.

11 (Canceled).

12 (New): A method comprising:  
providing a first signal;  
in response to the first signal, providing a second signal representative of a first domain and providing a third signal representative of the first domain and a second domain;  
in response to the second and third signals, operating on a first value representative of the first domain and on a second value representative of the second domain;  
providing a fourth signal to control an event defined by the first and second values; and  
adjusting the second signal according to a magnitude of the third signal.

13 (New): A method as in claim 12 wherein the first domain is angular.

14 (New): A method as in claim 13 wherein the second domain is time.

15 (New): A method as in claim 12 wherein said step of adjusting is performed without requiring intervention by a processor.

16 (New): A method as in claim 12 wherein the method is used to perform a conversion between the first and second domains.

17 (New): A method as in claim 12 wherein the first domain represents crankshaft position.

18 (New): A method as in claim 17 wherein the method is used in an engine control system.